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14500번 - 테트로미노 baekjoon

```
1 #include <iostream>
 2 using namespace std;
 3 int a[500][500]; ——>
 4 bool c[500][500];
 5 int n, m;
 6 int dx[] =
 7 int dy[] \( \)
 8 \text{ int ans} = 0;
 9 void go (int x, int y
                          int sum, (int cnt)
       if (cnt == 4)
10
            (ans < sum) ans = sum;
11
12
           return;
13
       if (x < 0 | | x >= n | | y < 0 | | y >= m) (return
14
       if (c[x][y]) return;
15
16
       for (int k=0; k<4; k++) {
17
           go(x+dx[k],y+dy[k](sum+a[x][y
18
19
20
       c[x][y] = false
21 }
22 int main() {
       cin >> n >> m;
23
       for (int i=0; i<n; i++) {</pre>
24
25
           for (int j=0; j<m; j++) {</pre>
26
                cin >> a[i][j];
27
28
                                             (7,5)
29
        for (int i=0; i<n; i++) {
30
            for (int j=0; j<m; j++) {
               go(i,j,0,0);
31
32
                if (j+2 < m) {
                    int temp = a[i][j] + a[i][j+1] + a[i][j+2];
33
                    if (i-1 >= 0) {
34
35
                        int temp2 = temp + a[i-1][j+1];
36
                        if (ans < temp2) ans = temp2;</pre>
37
                    if (i+1 < n) {
38
                        int temp2 = temp + a[i+1][j+1];
39
40
                        if (ans < temp2) ans = temp2;</pre>
41
                    }
42
43
                if (i+2 < n) {
44
                    int temp = a[i][j] + a[i+1][j] + a[i+2][j];
45
                    if (j+1 < m) {
46
                        int temp2 = temp + a[i+1][j+1];
47
                        if (ans < temp2) ans = temp2;</pre>
48
49
                    if (j-1 >= 0) {
50
                        int temp2 = temp + a[i+1][j-1];
51
                        if (ans < temp2) ans = temp2;</pre>
52
53
54
55
56
       cout << ans << '\n';
57
       return 0;
58 }
```

시간

184 ms

코드 길이

1618 B

Java

59

결과

맞았습니다!!

C++14

```
1 import java.util.*;
 2 public class Main {
       static int[][] a;
       static boolean[][] c;
       static int n, m;
       static int[] dx = \{0,0,1,-1\};
       static int[] dy = \{1,-1,0,0\};
 8
       static int ans = 0;
       static void go(int x, int y, int sum, int cnt) {
10
           if (cnt == 4) {
               if (ans < sum) ans = sum;</pre>
11
12
               return;
13
14
           if (x < 0 \mid | x >= n \mid | y < 0 \mid | y >= m) return;
15
           if (c[x][y]) return;
16
           c[x][y] = true;
           for (int k=0; k<4; k++) {
17
               go(x+dx[k],y+dy[k],sum+a[x][y],cnt+1);
18
           }
19
20
           c[x][y] = false;
21
22
       public static void main(String[] args) {
23
           Scanner sc = new Scanner(System.in);
24
           n = sc.nextInt();
25
           m = sc.nextInt();
26
           a = new int[n][m];
           c = new boolean[n][m];
27
28
           for (int i=0; i<n; i++) {</pre>
29
               for (int j=0; j<m; j++) {
30
                    a[i][j] = sc.nextInt();
               }
31
32
33
           for (int i=0; i<n; i++) {
34
               for (int j=0; j<m; j++) {</pre>
                    go(i,j,0,0);
35
36
                    if (j+2 < m) {
                        int temp = a[i][j] + a[i][j+1] + a[i][j+2];
37
                        if (i-1 >= 0) {
38
39
                            int temp2 = temp + a[i-1][j+1];
40
                            if (ans < temp2) ans = temp2;</pre>
                        }
41
                        if (i+1 < n) {
42
43
                            int temp2 = temp + a[i+1][j+1];
44
                            if (ans < temp2) ans = temp2;</pre>
45
                        }
46
                    }
47
                    if (i+2 < n) {
48
                        int temp = a[i][j] + a[i+1][j] + a[i+2][j];
49
                        if (j+1 < m) {
50
                            int temp2 = temp + a[i+1][j+1];
51
                            if (ans < temp2) ans = temp2;</pre>
52
53
                        if (j-1 >= 0) {
                            int temp2 = temp + a[i+1][j-1];
54
55
                            if (ans < temp2) ans = temp2;</pre>
56
                        }
57
                    }
58
59
60
           System.out.println(ans);
61
62 }
63
```

메모리

3208 KB

결과 메모리 시간 코드 길이 맞았습니다!! 86808 KB 1152 ms 2041 B

```
1 #include <iostream>
 2 #include <vector>
 3 #include <algorithm>
                            0, 1, 2, --- <u>N-1</u>
 4 using namespace std;
 5 int s[20][20];
 6 int n;
 7 int go(int index, vector<int> &first, vector<int> &second) {
       if (index == n) {
           if (first.size() == 0) return
 9
           if (second.size()
10
                             €= ∅
                                    return
11
           int t1 = 0;
12
           int t2 = 0;
13
           for (int i=0; i<first.size(); i++) {</pre>
14
               for (int j=0; j first.size(); j++) {
                   if (i == j) continue;
15
                      += s[first[i]][first[j]]
16
17
               }
18
19
           for (int i=0; i < second.size(); i++) {
20
               for (int j=0; j<second.sixe(); j++) {</pre>
                      (i == j) continue; /
21
                   t2 \= s[second[i]];
22
23
24
25
               diff = t1-t2;
           if (diff < 0) diff = -diff;</pre>
26
27
           return diff;
28
29
       int ans =
                                                切
       first.push_back(index);
30
       int t1 = go(index+1, first, second);
31
       if (ans == -1 || (t1 != -1 && ans > t1)) {
32
33
           ans = t1;
34
35
       first.pop_back()
                                             2世
      second.push_back(index);
36
       int t2 = go(index+1, first, second);
37
       if (ans == -1 \mid \mid (t2 != -1 \&\& ans > t2)) {
38
39
           ans = t2;
40
       }
       second.pop_back();
41
42
       return ans;
43 }
44 int main() {
45
       cin >> n;
       for (int i=0; i<n; i++) {</pre>
46
47
           for (int j=0; j<n; j++) {</pre>
               cin >> s[i][j];
48
49
           }
50
51
                           second;
       vector<int> (first),
52
       cout << go(0, first, second) << '\n';</pre>
53 }
```

시간

224 ms

코드 길이

1429 B

메모리

1988 KB

Java

결과

맞았습니다!!

```
1 import java.util.*;
 2 public class Main {
       static int[][] s;
       static int n;
       static int go(int index, ArrayList<Integer> first, ArrayList<Integer> second) {
 6
           if (index == n) {
               if (first.size() == 0) return -1;
 8
               if (second.size() == 0) return -1;
 9
               int t1 = 0;
               int t2 = 0;
10
               for (int i=0; i<first.size(); i++) {</pre>
11
                    for (int j=0; j<first.size(); j++) {</pre>
12
13
                        if (i == j) continue;
14
                        t1 += s[first.get(i)][first.get(j)];
15
                    }
16
                }
17
               for (int i=0; i<second.size(); i++) {</pre>
                    for (int j=0; j<second.size(); j++) {</pre>
18
                        if (i == j) continue;
19
                        t2 += s[second.get(i)][second.get(j)];
20
                    }
21
22
                }
23
               int diff = Math.abs(t1-t2);
24
               return diff;
25
           }
26
           int ans = -1;
27
           first.add(index);
           int t1 = go(index+1, first, second);
28
29
           if (ans == -1 \mid \mid (t1 != -1 \&\& ans > t1)) {
               ans = t1;
30
31
32
           first.remove(first.size()-1);
           second.add(index);
33
           int t2 = go(index+1, first, second);
34
           if (ans == -1 || (t2 != -1 && ans > t2)) {
35
               ans = t2;
36
37
38
           second.remove(second.size()-1);
39
           return ans;
40
41
       public static void main(String[] args) {
42
           Scanner sc = new Scanner(System.in);
43
           n = sc.nextInt();
44
           s = new int[n][n];
45
           for (int i=0; i<n; i++) {</pre>
46
               for (int j=0; j<n; j++) {</pre>
47
                    s[i][j] = sc.nextInt();
                }
48
           }
49
50
           ArrayList<Integer> first = new ArrayList<>();
51
           ArrayList<Integer> second = new ArrayList<>();
52
           System.out.println(go(0, first, second));
53
54 }
```

 결과
 메모리
 시간
 코드길이

 맞았습니다!!
 25036 KB
 1244 ms
 1809 B

```
1 #include <iostream>
 2 #include <queue>
 3 using namespace std; 5135
 4 int n, m;
 r int a[10][10];
 int b[10][10]
 7 int dx[] = \{0,0,1,-1\};
 int dy[] = \{1,-1,0,0\}
 9 int bfs() {
       queue<pair<int.int>> q;
10
11
       for (int i=0; i<n; i++) {</pre>
12
           for (int j=0; j<m; j++) {</pre>
13
               b[i][j] = a[i]<u>[</u>j];
               if (b[i][j] == 2) {
14
15
                    q.push(make_pair(i,j));
16
17
           }
18
19
       while (!g_empty())
20
            int x = q.front().first;
21
           int y = q.front().second;
22
           q.pop();
23
           for (int k=0; k<4; k++) {
24
               int nx = x+dx[k];
25
               int ny = y+dy[k];
26
               if (0 \le nx \& nx \le n \& 0 \le ny \& ny \le m) {
                   if (b[nx][ny] == 0)
27
28
                        b[nx][ny]
29
                        q.push(make_pair(nx,ny));
30
31
32
33
34
       int cnt = 0;
           (int i=0; i<n; i++) {
35
36
           for (int j=0; j<m; \underline{j}++)
37
               if (b[i][j] == 0) {
38
                    cnt += 1;
39
40
41
42
       return cnt;
43 }
44 int main() {
45
       cin >> n >> m;
       for (int i=0; i<n; i++) {</pre>
46
47
           for (int j=0; j<m; j++) {</pre>
               cin >> a[i][j];
48
49
50
51
       int ans = 0;
       for (int x_1=0; x_1=0; x_1=0) {
52
           for (int y1=0; y1<m; y1++) {
53
               if (a[x1][y1] != 0) continue;
54
               for (int x2=0; x2<n; x2++) {
55
                    for (int y2=0; y2<m; y2++) {
56
                        if (a[x2][y2] != 0) continue;
57
                        for (int x_0=0; x_3<n; x_3++) {
58
                            for (int y3=0; y3<m; y3++) {
59
60
                                if (a[x3][y3] != 0) continue;
61
                                if (x1 == x2 \&\& y1 == y2) continue;
62
                                if (x1 == x3 && y1 == y3) continue;
                                if (x2 == x3 \&\& y2 == y3) continue;
63
64
                                a[x1][y1] = 1;
                                a[x2][y2] = 1;
65
66
                                a[x3][y3] = 1
67
                                int cur = bfs()
                                if (ans < cur) ans = cur;</pre>
68
                                a[x1][y1] = 0;
69
                                a[x2][y2] = 0;
70
                                a[x3][y3] = 0;
71
72
73
74
                    }
75
               }
76
           }
```

Java

시간

256 ms

코드 길이

2246 B

메모리

1988 KB

77

78

79

80 }

cout << ans << '\n';</pre>

return 0;

결과

맞았습니다!!

```
1 import java.util.*;
 2 class Pair {
       int x;
       int y;
       Pair(int x, int y) {
           this.x = x;
           this.y = y;
 8
 9 }
10 public class Main {
       static int n, m;
11
12
       static int[][] a = new int[10][10];
13
       static int[][] b = new int[10][10];
       static int[] dx = \{0,0,1,-1\};
14
15
       static int[] dy = \{1,-1,0,0\};
16
       static int bfs() {
17
           Queue<Pair> q = new LinkedList<Pair>();
           for (int i=0; i<n; i++) {</pre>
18
                for (int j=0; j<m; j++) {</pre>
19
                    b[i][j] = a[i][j];
20
                    if (b[i][j] == 2) {
21
22
                        q.add(new Pair(i, j));
23
                    }
24
                }
           }
25
26
           while (!q.isEmpty()) {
27
                Pair p = q.remove();
28
                int x = p.x;
29
                int y = p.y;
30
                for (int k=0; k<4; k++) {</pre>
31
                    int nx = x+dx[k];
                    int ny = y+dy[k];
32
33
                    if (0 \le nx \& nx \le n \& 0 \le ny \& ny \le m) {
                        if (b[nx][ny] == 0) {
34
35
                            b[nx][ny] = 2;
36
                            q.add(new Pair(nx, ny));
37
                        }
38
39
40
41
           int cnt = 0;
           for (int i=0; i<n; i++) {
42
                for (int j=0; j<m; j++) {</pre>
43
                    if (b[i][j] == 0) {
44
45
                        cnt += 1;
46
                    }
47
                }
48
           return cnt;
49
50
       public static void main(String[] args) {
51
52
           Scanner sc = new Scanner(System.in);
53
           n = sc.nextInt();
           m = sc.nextInt();
54
55
           a = new int[n][m];
           for (int i=0; i<n; i++) {</pre>
56
57
                for (int j=0; j<m; j++) {</pre>
58
                    a[i][j] = sc.nextInt();
                }
59
           }
60
61
           int ans = 0;
           for (int x1=0; x1<n; x1++) {</pre>
62
63
                for (int y1=0; y1<m; y1++) {</pre>
64
                    if (a[x1][y1] != 0) continue;
                    for (int x2=0; x2<n; x2++) {</pre>
65
66
                        for (int y2=0; y2<m; y2++) {</pre>
                            if (a[x2][y2] != 0) continue;
67
                            for (int x3=0; x3<n; x3++) {</pre>
68
69
                                 for (int y3=0; y3<m; y3++) {
70
                                     if (a[x3][y3] != 0) continue;
71
                                     if (x1 == x2 && y1 == y2) continue;
72
                                     if (x1 == x3 && y1 == y3) continue;
                                     if (x2 == x3 && y2 == y3) continue;
73
74
                                     a[x1][y1] = 1;
75
                                     a[x2][y2] = 1;
76
                                     a[x3][y3] = 1;
77
                                     int cur = bfs();
78
                                     if (ans < cur) ans = cur;</pre>
                                     a[x1][y1] = 0;
79
80
                                     a[x2][y2] = 0;
81
                                     a[x3][y3] = 0;
82
83
                            }
84
                        }
85
                    }
86
87
88
           System.out.println(ans);
89
90 }
```

메모리 시간 코드 길이 맞았습니다!! 148728 KB 672 ms 2842 B

결과

```
1 #include <iostream>
 2 #include <queue>
 3 using namespace std;
 4 int n, m;
 5 int a[10][10];
 6 int b[10][10];
 7 int dx[] = \{0,0,1,-1\};
 8 int dy[] = \{1,-1,0,0\};
 9 void dfs(int x, int y) {
       for (int k=0; k<4; k++) {
10
11
           int nx = x+dx[k];
           int ny = y+dy[k];
12
13
           if (0 <= nx && nx < n && 0 <= ny && ny < m) {
                if (b[nx][ny] == 0) {
14
                    b[nx][ny] = 2;
15
16
                    dfs(nx,ny);
17
18
19
20 }
21 int dfs() {
22
       for (int i=0; i<n; i++) {</pre>
23
           for (int j=0; j<m; j++) {</pre>
24
                b[i][j] = a[i][j];
25
           }
26
       for (int i=0; i<n; i++) {</pre>
27
           for (int j=0; j<m; j++) {</pre>
28
29
                if (b[i][j] == 2) {
30
                   dfs(i, j);
31
32
33
34
       int cnt = 0;
35
       for (int i=0; i<n; i++) {</pre>
           for (int j=0; j<m; j++) {</pre>
36
                if (b[i][j] == 0) {
37
38
                    cnt += 1;
39
40
41
42
       return cnt;
43 }
44 int main() {
45
       cin >> n >> m;
46
       for (int i=0; i<n; i++) {</pre>
47
           for (int j=0; j<m; j++) {</pre>
48
                cin >> a[i][j];
49
           }
50
51
       int ans = 0;
52
       for (int x1=0; x1<n; x1++) {
53
           for (int y1=0; y1<m; y1++) {
                if (a[x1][y1] != 0) continue;
54
55
                for (int x2=0; x2<n; x2++) {
56
                    for (int y2=0; y2<m; y2++) {
57
                        if (a[x2][y2] != 0) continue;
                        for (int x3=0; x3<n; x3++) {
58
                            for (int y3=0; y3<m; y3++) {</pre>
59
60
                                 if (a[x3][y3] != 0) continue;
                                 if (x1 == x2 && y1 == y2) continue;
61
62
                                 if (x1 == x3 && y1 == y3) continue;
63
                                 if (x2 == x3 && y2 == y3) continue;
                                 a[x1][y1] = 1;
64
65
                                 a[x2][y2] = 1;
66
                                 a[x3][y3] = 1;
                                 int cur = dfs();
67
68
                                 if (ans < cur) ans = cur;</pre>
69
                                 a[x1][y1] = 0;
70
                                 a[x2][y2] = 0;
71
                                 a[x3][y3] = 0;
72
73
                        }
74
                    }
75
                }
76
           }
77
78
       cout << ans << '\n';</pre>
```

시간

256 ms

코드 길이

2143 B

메모리

1988 KB

79

80 }

return 0;

결과

맞았습니다!!

```
Java
   1 import java.util.*;
   2 class Pair {
         int x;
         int y;
         Pair(int x, int y) {
             this.x = x;
             this.y = y;
   8
   9 }
  10 public class Main {
  11
         static int n, m;
  12
         static int[][] a = new int[10][10];
  13
         static int[][] b = new int[10][10];
         static int[] dx = \{0,0,1,-1\};
  14
  15
         static int[] dy = \{1,-1,0,0\};
  16
         static void dfs(int x, int y) {
  17
             for (int k=0; k<4; k++) {
                  int nx = x+dx[k];
  18
  19
                  int ny = y+dy[k];
                  if (0 \le nx \& nx \le n \& 0 \le ny \& ny \le m) {
  20
  21
                      if (b[nx][ny] == 0) {
  22
                          b[nx][ny] = 2;
  23
                          dfs(nx,ny);
  24
                      }
  25
  26
  27
  28
         static int dfs() {
  29
             for (int i=0; i<n; i++) {
                  for (int j=0; j<m; j++) {</pre>
  30
  31
                      b[i][j] = a[i][j];
                  }
  32
  33
  34
             for (int i=0; i<n; i++) {
                  for (int j=0; j<m; j++) {</pre>
  35
  36
                      if (b[i][j] == 2) {
  37
                          dfs(i, j);
  38
  39
  40
  41
             int cnt = 0;
             for (int i=0; i<n; i++) {</pre>
  42
  43
                  for (int j=0; j<m; j++) {</pre>
                      if (b[i][j] == 0) {
  44
  45
                          cnt += 1;
  46
                      }
  47
  48
  49
              return cnt;
  50
         public static void main(String[] args) {
  51
  52
             Scanner sc = new Scanner(System.in);
  53
             n = sc.nextInt();
  54
             m = sc.nextInt();
             a = new int[n][m];
  55
             for (int i=0; i<n; i++) {</pre>
  56
  57
                  for (int j=0; j<m; j++) {</pre>
  58
                      a[i][j] = sc.nextInt();
  59
                  }
              }
  60
  61
             int ans = 0;
              for (int x1=0; x1<n; x1++) {</pre>
  62
  63
                  for (int y1=0; y1<m; y1++) {</pre>
                      if (a[x1][y1] != 0) continue;
  64
                      for (int x2=0; x2<n; x2++) {</pre>
  65
  66
                          for (int y2=0; y2<m; y2++) {</pre>
                               if (a[x2][y2] != 0) continue;
  67
                               for (int x3=0; x3<n; x3++) {</pre>
  68
  69
                                   for (int y3=0; y3<m; y3++) {
  70
                                       if (a[x3][y3] != 0) continue;
  71
                                       if (x1 == x2 && y1 == y2) continue;
  72
                                       if (x1 == x3 && y1 == y3) continue;
                                       if (x2 == x3 && y2 == y3) continue;
  73
  74
                                       a[x1][y1] = 1;
  75
                                       a[x2][y2] = 1;
  76
                                       a[x3][y3] = 1;
  77
                                       int cur = dfs();
  78
                                       if (ans < cur) ans = cur;</pre>
                                       a[x1][y1] = 0;
  79
                                       a[x2][y2] = 0;
  80
  81
                                       a[x3][y3] = 0;
  82
  83
                               }
  84
                          }
  85
                      }
  86
  87
             System.out.println(ans);
  88
  89
  90 }
                                             메모리
              결과
```

시간 코드 길이 맞았습니다!! 17680 KB 740 ms 2743 B

15683번 - 감시 baekjoon

```
C + + 14
   1 #include <iostream>
   2 #include <tuple>
   3 #include <vector>
   4 using namespace std;
 \rightarrow int (dx)] = \{0,1,0,-1\};
  \int \int \int \int dy [] = \{1,0,-1,0\}
   7 void check(vector<vector<int>> &a, vector<vector<int>> &b, int x, int y, int dir) {
         int n = a.size();
         int m = a[0].size();
         int i = x;
  10
  11
         int j = y;
         while (0 \le i \& i \le n \& \& 0 \le j \& \& j \le m)
  12
  13
             <u>if (a[i][j] == 6) break;</u>
             b[i][i] = a[x][y];
  14
             i += dx[dir];
  15
  16
             j += dy[dir];
  17
  18 }
  int go(vector<vector<int>> &a, vector<tuple<int,int,int>> &cctv, int index, vector<int> dirs) {
         if (cctv.size() == index) {
  20
             vector<vector<int>> b(a);
  21
             for (int i=0; i<cctv.size(); i++) {</pre>
  22
  23
                  int what,x,y;
  24
                  tie(what,x,y) = cctv[i];
  25
                  if (what == 1) {
                      check(a,b,x,y,dirs[i]);
  26
                  } else if (what == 2) {
  27
                      check(a,b,x,y dirs[i]);
  28
                      check(a,b,x,y,(<u>dirs[i]+2)</u>%4);
                  } else if (what == 3) {
  30
  31
                      check(a,b,x,y,dirs[i]);
  32
                      check(a,b,x,y,(dirs[i]+1)%4);
  33
                  } else if (what == 4) {
                      check(a,b,x,y,dirs(i]);
  34
                      check(a,b,x,y,(dirs[i] {1}%4);
  35
  36
                      check(a,b,x,y,(dirs[i](2)%4);
  37
                  } else if (what == 5) {
                      check(a,b,x,y,dirs(i));
  38
                      check(a,b,x,y,(dirs[i(\pm 1))%4);
  39
                      check(a,b,x,y,(dirs[i] (2)%4);
  40
                      check(a,b,x,y,(dirs[i]+3)%4);
  41
  42
             }
  43
  44
             int cnt = 0;
  45
             int n = a.size();
             int m = a[0].size();
  46
  47
             for (int i=0; i<n; i++) {</pre>
  48
                  for (int j=0; j<m; j++) {</pre>
                      if (b[i][j] == 0) {
  49
  50
                          cnt += 1;
  51
  52
  53
  54
              return (cnt;
  55
  56
             (int i=0; i<4; i++) {
  57
             dirs[index] = i;
  58
             int temp = go(a, cctv, index+1, dirs);
                  ans > tem
  61
                  ans = temp;
  62
  63
  64
  66 int main() {
  67
         int n, m;
  68
         cin >> n >> m;
  69
         vector<vector<int>> a(n, vector<int>(m));
         vector<tuple<int,int,int>>
  70
  71
         vector<int> dirs;
         for (int i=0; i<n; i++) {</pre>
  72
  73
             for (int j=0; j<m; j++) {
  74
                  cin >> a[i][j];
                  if (a[i][j] >= 1 && a[i][j] <= 5) {</pre>
  75
                      cctv.emplace_back(a[i][j],(i) (j);
  76
  77
                      dirs.push_back(0);
  78
             }
  79
```

시간

52 ms

코드 길이

2379 B

Java

80

81

82

83 }

84

return 0;

결과

맞았습니다!!

cctv, 0 dirs) << '\n';

메모리

1988 KB

```
1 import java.util.*;
 2 class CCTV {
       public int x, y, type, dir;
       CCTV(int x, int y, int type) {
           this.x = x;
           this.y = y;
           this.type = type;
 8
           this.dir = 0;
10 }
11 public class Main {
       static final int[] dx = \{0,1,0,-1\};
12
13
       static final int[] dy = \{1,0,-1,0\};
14
       static void check(int[][] a, int[][] b, int x, int y, int dir) {
15
           int n = a.length, m = a[0].length;
16
           int i = x, j = y;
           while (0 \le i \&\& i \le n \&\& 0 \le j \&\& j \le m) {
17
               if (a[i][j] == 6) break;
18
               b[i][j] = a[x][y];
19
20
               i += dx[dir];
21
               j += dy[dir];
22
           }
23
24
       static int go(int[][] a, ArrayList<CCTV> cctv, int index) {
25
           if (index == cctv.size()) {
26
               int n = a.length, m = a[0].length;
27
               int[][] b = new int[n][m];
               for (int i=0; i<n; i++) {</pre>
28
                    for (int j=0; j<m; j++) {</pre>
29
30
                        b[i][j] = a[i][j];
                    }
31
32
33
               for (CCTV c : cctv) {
34
                    int what = c.type;
35
                    int x = c.x, y = c.y;
36
                    int dir = c.dir;
                    if (what == 1) {
37
                        check(a,b,x,y,dir);
38
39
                    } else if (what == 2) {
                        check(a,b,x,y,dir);
40
41
                        check(a,b,x,y,(dir+2)%4);
42
                    } else if (what == 3) {
43
                        check(a,b,x,y,dir);
44
                        check(a,b,x,y,(dir+1)%4);
45
                    } else if (what == 4) {
                        check(a,b,x,y,dir);
46
                        check(a,b,x,y,(dir+1)%4);
47
48
                        check(a,b,x,y,(dir+2)%4);
49
                    } else if (what == 5) {
                        check(a,b,x,y,dir);
50
51
                        check(a,b,x,y,(dir+1)%4);
                        check(a,b,x,y,(dir+2)%4);
52
53
                        check(a,b,x,y,(dir+3)%4);
54
                    }
55
                }
56
               int cnt = 0;
57
               for (int i=0; i<n; i++) {</pre>
58
                    for (int j=0; j<m; j++) {</pre>
                        if (b[i][j] == 0) {
59
60
                            cnt += 1;
61
                    }
62
63
64
                return cnt;
65
66
           int ans = 100;
           for (int i=0; i<4; i++) {
67
               cctv.get(index).dir = i;
68
69
               int temp = go(a, cctv, index+1);
70
               if (ans > temp) {
71
                    ans = temp;
72
73
           }
74
           return ans;
75
       public static void main(String[] args) {
76
77
           Scanner sc = new Scanner(System.in);
78
           int n = sc.nextInt();
           int m = sc.nextInt();
79
80
           int[][] a = new int[n][m];
81
           ArrayList<CCTV> cctv = new ArrayList<>();
           for (int i=0; i<n; i++) {</pre>
82
83
                for (int j=0; j<m; j++) {
84
                    a[i][j] = sc.nextInt();
85
                    if (a[i][j] >= 1 && a[i][j] <= 5) {</pre>
                        cctv.add(new CCTV(i, j, a[i][j]));
86
87
                    }
                }
88
```

코드 길이 결과 메모리 시간 맞았습니다!! 56504 KB 536 ms 2909 B

}

System.out.println(go(a, cctv, 0));

89

90

91

92 }

```
C++14
   1 #include <iostream>
   2 #include <vector>
                                 ganotrici == 1

(r, c+1) - (r, c+1)

== 2

(r, c+1) - (r, c)
   3 using namespace std;
   4 int garo[100][100];
   5 int w,h;
   6 int start int c
         int r = 1;
        while (r \ll h) {
             if (garo[r][c] == 1)
                 c += 1;
             } else if (garo[r][c] == (2)
                 c = 1;
             r += 1;
         return(c;)
  17 }
  18 bool go() {
  19
         for (int i=1; i<=w; i++) {
             int res = start(i)
  20
             if (res)!=(i) return false;
  21
  22
  23
         return true;
  24 }
  25 int main() {
         int m;
  26
  27
         cin >> w >> m >> h;
  28
        while (m--) {
            int x, y;
  30
                                          7月24 35 竞约
             garo[x][y] = 1;
  31
             garo(x][y+1) = 2;
  32
  33
  34
         vector<pair<int,int><a;</pre>
  35
         for (int i=1; i<=h; i++)
  36
             for (int j=1; j<=w-1; j++) {
                 37
                 if (garo[i][j+1] (!= 0) continue;
  38
                 a.emplace_back(i,j)
  39
  40
  41
  42
         int ans = -1:
         1f (go()) {
             cout << 0 << '\n';
  44
  45
             return 0;
  46
  47
         int len = a.size();
         for (int i=0; i<len; i++) {</pre>
  48
             int x1 = a[i].first;
  49
  50
             int yI = a[i].second;
             if (garo[x1][y1] != 0 || garo[x1][y1+1] != 0) continue;
  51
             garo[x1][y1] = 1
  52
  53
             garo[x1][y1+1]
  54
  55
                    (ans == -1 || ans > 1) {
  56
  57
  58
             for (int(j=i+1; (<)en; j++) {
  59
                 int x2 = a[j].first;
  60
                 int y2 = a[j].second;
  61
                 if (garo[x2][y2] != 0 || garo[x2][y2+1] != 0) continue;
  62
                                       2世双十号
  63
                 garo[x2][y2] = 1;
                 garo[x2][y2+1] = 2;
  64
  65
                     if (ans == -1 \mid |ans > 2) {
  66
  67
                         ans = 2;
                     }
  68
  69
                 }
                 for (int k=j+1); k<len; k++) {
  70
  71
                     int x3 = a[k].first;
  72
                     int y3 = a[k].second;
  73
                     if (garo[x3][y3] != 0 || garo[x3][y3+1] != 0) continue;
  74
                     garo[x3][y3] = 1;
                     garo[x3][y3+1] = 2;
  75
  76
                     if (go()) {
                         if (ans = -1 | | ans > 3) {
  77
  78
                             zns = 3;
  79
                   80
                     garo[x3][y3] = 0;
  81
  82
                     garo[x3][y3+1] = 0;
  83
  84
                 garo[x2][y2] = 0;
                 garo[x2][y2+1] = 0;
  85
  86
  87
             garo[x1][y1] = 0;
```

```
garo[x1][y1+1] = 0;
  88
  89
  90
         cout << ans << '\n';</pre>
  91
         return 0;
  92 }
              결과
                                                                            시간
                                            메모리
                                                                                                         코드 길이
            맞았습니다!!
                                           2028 KB
                                                                          584 ms
                                                                                                          2285 B
Java
    1 import java.util.*;
    2 class Pair {
          int first;
    3
    4
          int second;
    5
          Pair(int first, int second) {
    6
              this.first = first;
    7
              this.second = second;
    8
          }
    9 }
   10 public class Main {
          static int[][] garo = new int[100][100];
   11
          static int w, h;
   12
          static int start(int c) {
   13
              int r = 1;
   14
              while (r <= h) {
   15
                  if (garo[r][c] == 1) {
   16
                       c += 1;
   17
                  } else if (garo[r][c] == 2) {
   18
                      c -= 1;
   19
   20
   21
                  r += 1;
   22
   23
              return c;
   24
          static boolean go() {
   25
              for (int i=1; i<=w; i++) {</pre>
   26
                  int res = start(i);
   27
                  if (res != i) return false;
   28
   29
              }
              return true;
   30
          }
   31
          public static void main(String[] args) {
   32
   33
              Scanner sc = new Scanner(System.in);
   34
              int m;
              w = sc.nextInt();
   35
              m = sc.nextInt();
   36
              h = sc.nextInt();
   37
              while (m-- > 0) {
   38
                  int x = sc.nextInt();
                  int y = sc.nextInt();
   40
                  garo[x][y] = 1;
   41
                  garo[x][y+1] = 2;
   42
              }
   43
              ArrayList<Pair> temp = new ArrayList<>();
   44
              for (int i=1; i<=h; i++) {</pre>
   45
                  for (int j=1; j<=w-1; j++) {</pre>
   46
                       if (garo[i][j] != 0) continue;
   47
                       if (garo[i][j+1] != 0) continue;
   48
                       temp.add(new Pair(i,j));
   49
   50
   51
              Pair[] a = temp.toArray(new Pair[temp.size()]);
   52
              int ans = -1;
   53
              if (go()) {
   54
                  System.out.println(0);
   55
                  System.exit(0);
   56
   57
   58
              int len = a.length;
              for (int i=0; i<len; i++) {</pre>
   59
                  int x1 = a[i].first;
   60
                  int y1 = a[i].second;
   61
                  if (garo[x1][y1] != 0 || garo[x1][y1+1] != 0) continue;
   62
                  garo[x1][y1] = 1;
   63
                  garo[x1][y1+1] = 2;
   64
                  if (go()) {
   65
                       if (ans == -1 || ans > 1) {
   66
                           ans = 1;
   67
   68
   69
                  for (int j=i+1; j<len; j++) {</pre>
   70
                       int x2 = a[j].first;
   71
                       int y2 = a[j].second;
   72
                       if (garo[x2][y2] != 0 || garo[x2][y2+1] != 0) continue;
   73
                       garo[x2][y2] = 1;
   74
                       garo[x2][y2+1] = 2;
   75
                       if (go()) {
   76
                           if (ans == -1 || ans > 2) {
   77
   78
                               ans = 2;
                           }
   79
                       }
   80
                       for (int k=j+1; k<len; k++) {</pre>
   81
   82
                           int x3 = a[k].first;
                           int y3 = a[k].second;
   83
                           if (garo[x3][y3] != 0 || garo[x3][y3+1] != 0) continue;
   84
   85
                           garo[x3][y3] = 1;
                           garo[x3][y3+1] = 2;
   86
                           if (go()) {
   87
                               if (ans == -1 || ans > 3) {
   88
                                   ans = 3;
   89
   90
   91
```

결과 메모리 시간 코드 길이 맞았습니다!! 17392 KB 496 ms 3032 B

garo[x3][y3] = 0;

garo[x2][y2] = 0;

garo[x1][y1] = 0;

System.out.println(ans);

garo[x1][y1+1] = 0;

garo[x2][y2+1] = 0;

garo[x3][y3+1] = 0;

92

93

94

95

96

97

98

99

100

101

102

103 }

}

```
1 #include <iostream>
 2 #include <tuple>
 3 #include <vector>
 4 #include <algorithm>
 5 using namespace std;
 6 int main() {
       int n, m;
       cin >> n >> m;
       vector<vector<int>> \a(n, vector<int>(n));
       vector<pair<int,int>> people
10
       vector<pair<int,int>> store;
11
12
       for (int i=0; i<n; i++) {
13
           for (int j=0; j<n; j++) {</pre>
14
               cin >> a[i][j];
               if \overline{(a[i][j] == 1)} {
15
                   people.emplace_back(i, j);
16
               } else if (a[i][j] == 2) {
17
                    store.emplace_back(i, j);
18
19
20
21
22
       vector<int> d(store.size());
23
       for (int i=0; (i<m;) i++) {
24
           d[i] = 1;
25
       sort(d.begin(),d.end());
26
       int ans = -1;
27
28
       do {
           int sum = 0;
          for (auto &p : people) {
31
               vector<int> dists;
32
               for (int i=0; i store) size(); i++) {
                   if (d[i] == 0) continue;
33
34
                   auto &s = store[i];
35
                   int d1 = p.first-s.first;
36
                   int d2 = p.second-s.second;
37
                   if (d1 < 0) d1 = -d1;
38
                   if (d2 < 0) d2 = -d2;
                   int dist = d1+d2;
39
                   dists.push_back(dist);
40
41
42
               sum += *min_element(dists.begin(),dists.end());
43
44
           if (ans == -1 \mid | ans > sum) {
45
               ans = sum;
46
       } while (next permutation(d.begin(),d.end()));
47
48
       cout << ans << '\n';</pre>
49
       return 0;
50 }
```

메모리

1988 KB

시간

28 ms

코드 길이

1369 B

86

87 }

}

결과

결과

맞았습니다!!

```
Java
   1 import java.util.*;
   2 class Pair {
         int first;
         int second;
         Pair(int first, int second) {
             this.first = first;
             this.second = second;
  10 public class Main {
         static boolean next_permutation(int[] a) {
  11
             int i = a.length-1;
  12
  13
             while (i > 0 \&\& a[i-1] >= a[i]) {
  14
                 i -= 1;
             }
  15
  16
  17
             if (i <= 0) {
                  return false;
  18
  19
             }
  20
  21
             int j = a.length-1;
  22
             while (a[j] <= a[i-1]) {</pre>
  23
                 j -= 1;
             }
  24
  25
  26
             int temp = a[i-1];
  27
             a[i-1] = a[j];
             a[j] = temp;
  28
  29
  30
             j = a.length-1;
  31
             while (i < j) {
  32
                 temp = a[i];
  33
                 a[i] = a[j];
  34
                 a[j] = temp;
  35
                 i += 1;
                 j -= 1;
  36
             }
  37
  38
             return true;
  39
  40
         public static void main(String[] args) {
  41
             Scanner sc = new Scanner(System.in);
  42
             int n = sc.nextInt();
  43
             int m = sc.nextInt();
             int[][] a = new int[n][n];
  44
  45
             ArrayList<Pair> people = new ArrayList<>();
  46
             ArrayList<Pair> store = new ArrayList<>();
  47
             for (int i=0; i<n; i++) {
                 for (int j=0; j<n; j++) {</pre>
  48
  49
                      a[i][j] = sc.nextInt();
                      if (a[i][j] == 1) {
  50
  51
                          people.add(new Pair(i,j));
  52
                      } else if (a[i][j] == 2) {
  53
                          store.add(new Pair(i,j));
  54
                      }
  55
  56
  57
             int[] d = new int[store.size()];
  58
             for (int i=0; i<m; i++) {</pre>
  59
                 d[i] = 1;
             }
  60
  61
             Arrays.sort(d);
             int ans = -1;
  62
             do {
  63
  64
                 int sum = 0;
                 for (Pair p : people) {
  65
  66
                      int min = -1;
  67
                      for (int i=0; i<store.size(); i++) {</pre>
                          if (d[i] == 0) continue;
  68
  69
                          Pair s = store.get(i);
  70
                          int d1 = p.first-s.first;
                          int d2 = p.second-s.second;
  71
  72
                          if (d1 < 0) d1 = -d1;
  73
                          if (d2 < 0) d2 = -d2;
                          int dist = d1+d2;
  74
                          if (min == -1 \mid \mid min > dist) {
  75
  76
                              min = dist;
  77
                          }
  78
  79
                      sum += min;
  80
                  }
                 if (ans == -1 \mid \mid ans > sum) {
  81
  82
                      ans = sum;
  83
  84
             } while (next_permutation(d));
  85
             System.out.println(ans);
```

시간 메모리 코드 길이 맞았습니다!! 18048 KB 324 ms 2316 B

2210번 - 숫자판 점프 baekjoon

C++14

```
1 #include <iostream>
 2 #include <set>
                                  CN53012
 3 using namespace std;
 4 int n = 5;
 5 int a[5][5];
   set int> ans;
 7 int dx[] = \{0,0,1,-1\};
 8 int dy[] = \{1,-1,0,0\}
 9 void go (int x, int y, int num, int len) {
       if len == 6
10
11
           ans.insert(num);
12
            return;
13
14
       for (int k=0; k<4; k++) {
           int nx = x+dx[k];
15
            int ny = y+dy[k];
16
           if \sqrt{0} <= nx \&\& nx < n \&\& 0 <= ny \&\& ny < n) {
17
                go(nx,ny,num*10+a[nx][ny],len+1);
18
19
20
21 }
22 int main() {
23
       for (int i=0; i<n; i++) {</pre>
           for (int j=0; j<n; j++) {</pre>
24
25
                cin >> a[i][j];
26
            }
27
       for (int i=0; i<n; i++) {
28
            for (int j=0; j<n; j++)</pre>
29
30
                go(i,j,a[i][j],1);
31
32
       cout << ans.size() << '\n';</pre>
33
34 }
                                                                           시간
            결과
                                           메모리
                                                                                                          코드 길이
                                                                           0 ms
          맞았습니다!!
                                          2252 KB
                                                                                                           714 B
```

Java

```
1 import java.util.*;
 2 public class Main {
       static int[] dx = \{0,-1,0,1\};
       static int[] dy = \{1,0,-1,0\};
       static int n = 5;
       static int[][] a = new int[5][5];
       static HashSet<Integer> ans = new HashSet<>();
 8
       static void go(int x, int y, int num, int len) {
 9
           if (len == 6) {
10
               ans.add(num);
11
                return;
12
13
           for (int k=0; k<4; k++) {
14
               int nx = x+dx[k];
15
               int ny = y+dy[k];
16
               if (0 \le nx \& nx \le n \& 0 \le ny \& ny \le n) {
                    go(nx,ny,num*10+a[nx][ny],len+1);
17
18
19
           }
20
21
       public static void main(String[] args) {
22
           Scanner sc = new Scanner(System.in);
           for (int i=0; i<n; i++) {</pre>
23
               for (int j=0; j<n; j++) {</pre>
24
25
                    a[i][j] = sc.nextInt();
26
                }
27
           }
28
           for (int i=0; i<n; i++) {
               for (int j=0; j<n; j++) {</pre>
29
                    go(i,j,a[i][j],1);
30
31
                }
32
           }
33
           System.out.println(ans.size());
34
35 }
```

 결과
 메모리
 시간
 코드길이

 맞았습니다!!
 12536 KB
 124 ms
 988 B

3019번 - 테트리스 baekjoon

C++14

```
1 #include <iostream>
 2 #include <string>
 3 using namespace std;
 4 int n, m;
 5 int a[100];
 6 int calc(int i, string s) {
       if (i + s.length() > n) return 0;
       int base = a[i] - (s[0] - '0');
       for (int j=0; j<s.length(); j++) {</pre>
           if (base != a[i+j] - (s[j] - '0')) {
10
11
               return 0;
12
13
14
       return 1;
15 }
16 int main() {
       cin >> n >> m;
17
       for (int i=0; i<n; i++) {</pre>
18
           cin >> a[i];
19
20
21
       int ans = 0;
22
       for (int i=0; i<n; i++) {</pre>
23
           if (m == 1) {
               ans += calc(i, "0") + calc(i, "0000");
24
25
           } else if (m == 2) {
               ans += calc(i, "00");
26
           } else if (m == 3) {
27
               ans += calc(i, "001") + calc(i, "10");
28
           } else if (m == 4) {
29
               ans += calc(i, "100") + calc(i, "01");
30
           } else if (m == 5) {
31
32
               ans += calc(i, "000") + calc(i, "01") + calc(i, "101") + calc(i, "10");
           } else if (m == 6) {
33
34
               ans += calc(i, "000") + calc(i, "00") + calc(i, "011") + calc(i, "20");
35
           } else if (m == 7) {
               ans += calc(i, "000") + calc(i, "00") + calc(i, "110") + calc(i, "02");
36
37
           }
38
39
       cout << ans << '\n';</pre>
40
       return 0;
41 }
            결과
                                          메모리
                                                                         시간
                                                                                                      코드 길이
```

1988 KB

0 ms

1148 B

Java

맞았습니다!!

```
1 import java.util.*;
 2 public class Main {
       static int[] a;
       static int n, m;
       static int calc(int i, String s) {
           if (i + s.length() > n) return 0;
           int base = a[i] - (s.charAt(0) - '0');
 8
           for (int j=0; j<s.length(); j++) {</pre>
 9
               if (base != a[i+j] - (s.charAt(j) - '0')) {
10
                   return 0;
               }
11
           }
12
13
           return 1;
14
15
       public static void main(String[] args) {
16
           Scanner sc = new Scanner(System.in);
17
           n = sc.nextInt();
           m = sc.nextInt();
18
19
           a = new int[n];
           for (int i=0; i<n; i++) {
20
               a[i] = sc.nextInt();
21
           }
22
23
           int ans = 0;
           for (int i=0; i<n; i++) {</pre>
24
25
               if (m == 1) {
26
                   ans += calc(i, "0") + calc(i, "0000");
27
               } else if (m == 2) {
28
                   ans += calc(i, "00");
               } else if (m == 3) {
29
30
                   ans += calc(i, "001") + calc(i, "10");
31
               } else if (m == 4) {
                   ans += calc(i, "100") + calc(i, "01");
32
               } else if (m == 5) {
33
                   ans += calc(i, "000") + calc(i, "01") + calc(i, "101") + calc(i, "10");
34
               } else if (m == 6) {
35
36
                   ans += calc(i, "000") + calc(i, "00") + calc(i, "011") + calc(i, "20");
37
               } else if (m == 7) {
38
                   ans += calc(i, "000") + calc(i, "00") + calc(i, "110") + calc(i, "02");
               }
39
40
41
           System.out.println(ans);
42
43 }
```

 결과
 메모리
 시간
 코드길이

 맞았습니다!!
 11464 KB
 116 ms
 1435 B

4902번 - 삼각형의 값 baekjoon

C++14

```
1 #include <iostream>
                               (now, left) (now-tisht)
 2 using namespace std;
 3 int n;
 4 int a[401][801];
 5 int s[401][801];
 6 int ans = 0;
 7 void calc(int row, int left, int right, int sum) {
     f if (row < 1 \mid | row > n) return;
      if (left < 1 || right > 2*row-1) return;
      (sum)+= s[row][right] - s[row][left-1];
10
11
       if (sum > ans) ans = sum;
       if (left % 2 == 0) {
12
13
           calc(row-1, left-2, right, sum);
14
      } else {
           calc(row+1, left, right+2, sum);
15
16
17 }
18 int main() {
       for (int tc=1;; tc++) {
19
20
           cin >> n;
21
           if (n == 0) break;
           ans = -100000;
22
23
           for (int i=1; i<=n; i++) {
               for (int j=1; j<=2*i-1; j++) {
24
25
                   cin >> a[i][j]:
                  s[i][j] = s[i][j-1] + a[i][j];
26
27
28
29
            or (int i=1; i<=n; i++) {
30
               for (int j=1; j<=2*i-1; j++) {
                  \calc(i, j, j, 0);
31
32
33
           cout << tc << ". " << ans << '\n';
34
35
36
       return 0;
37 }
           결과
                                                                       시간
                                         메모리
                                                                                                   코드 길이
         맞았습니다!!
                                        4496 KB
                                                                                                    918 B
                                                                      176 ms
```

Java

```
1 import java.util.*;
 2 public class Main {
       static int n;
       static int[][] a = new int[401][801];
 4
       static int[][] s = new int[401][801];
       static int ans;
       static void calc(int row, int left, int right, int sum) {
 8
           if (row < 1 || row > n) return;
           if (left < 1 || right > 2*row-1) return;
           sum += s[row][right] - s[row][left-1];
10
11
           if (sum > ans) ans = sum;
12
           if (left % 2 == 0) {
               calc(row-1, left-2, right, sum);
13
           } else {
14
15
               calc(row+1, left, right+2, sum);
           }
16
17
18
       public static void main(String[] args) {
19
           Scanner sc = new Scanner(System.in);
           for (int tc=1;; tc++) {
20
               n = sc.nextInt();
21
               if (n == 0) break;
23
               ans = -1000000;
24
               for (int i=1; i<=n; i++) {
25
                   for (int j=1; j<=2*i-1; j++) {
                       a[i][j] = sc.nextInt();
26
27
                       s[i][j] = s[i][j-1] + a[i][j];
                   }
28
               }
29
30
               for (int i=1; i<=n; i++) {
31
                   for (int j=1; j<=2*i-1; j++) {
32
                       calc(i, j, j, 0);
33
                   }
34
35
               System.out.printf("%d. %d\n",tc, ans);
36
37
38 }
           결과
                                         메모리
```

 결과
 메모리
 시간
 코드길이

 맞았습니다!!
 102248 KB
 1096 ms
 1193 B

2916번 - 자와 각도기 baekjoon

C++14

```
1 #include <iostream>
 2 using namespace std;
 3 int a[10];
 4 bool d[360];
 5 int main() {
       int n, m;
       cin >> n >> m;
       for (int i=0;_i<n; i++) {
           cin >> [i]
10
11
      d[0] = true;
12
       for (int i=0; i<n; i++) {
13
           for (int k=0; k=360, k++) {
14
               for (int(j=0; j<360; j++) {
                   if (d[j] == false) continue;
15
                   d[(j-a[i]+360)\%360] = true;
16
17
                   d[(j+a[i])%360] = true;
18
19
           }
20
       while (m--) {
21
22
           int x;
23
           cin >> x;
24
           cout << (d[x] ? "YES" : "NO") << '\n';
25
26
       return 0;
27 }
                                                                        시간
           결과
                                         메모리
                                                                                                     코드 길이
         맞았습니다!!
                                        1988 KB
                                                                                                      569 B
```

Java

맞았습니다!!

```
1 import java.util.*;
 2 public class Main {
       public static void main(String[] args) {
           Scanner sc = new Scanner(System.in);
 4
 5
           int n = sc.nextInt();
 6
           int m = sc.nextInt();
           int[] a = new int[n];
 8
           for (int i=0; i<n; i++) {</pre>
 9
               a[i] = sc.nextInt();
10
           }
11
           boolean[] d = new boolean[360];
           d[0] = true;
12
13
           for (int i=0; i<n; i++) {</pre>
               for (int k=0; k<360; k++) {</pre>
14
15
                   for (int j=0; j<360; j++) {
16
                       if (d[j] == false) continue;
17
                       d[(j-a[i]+360)%360] = true;
18
                       d[(j+a[i])%360] = true;
19
                   }
20
21
22
           while (m-- > 0) {
23
               int x = sc.nextInt();
               System.out.println(d[x] ? "YES" : "NO");
24
25
26
       }
27 }
            결과
                                                                         시간
                                          메모리
                                                                                                       코드 길이
```

11920 KB

140 ms

789 B

14225번 - 부분수열의 합 baekjoon

C++14

```
1 #include <iostream>
 2 using <u>namespace</u> std;
 3 bool (c) 20 × 100000 + 10];
 4 int a[20];
 5 int n;
 6 int main() {
       cin >> n;
       for (int i=0; i<n; i++) {</pre>
            cin >> a[i];
10
11
       for (int i=0; i<1<<n)
12
            int sum =
13
                 (int j=0; j<n; j++)
14
                if (i&(1<<j)) {</pre>
15
                     sum += a[j];
16
17
18
            c[sum] = true;
19
20
       for (int(i=1)
21
            if (clil == false)
22
                cout <
23
                break;
24
25
26
       return 0;
27 }
28
            결과
                                             메모리
                                                                              시간
                                                                                                              코드 길이
          맞았습니다!!
                                            3936 KB
                                                                             60 ms
                                                                                                               529 B
```

Java

```
1 import java.util.*;
 2 public class Main {
       public static void main(String args[]) {
           Scanner sc = new Scanner(System.in);
 5
           boolean[] c = new boolean[20*100000+10];
           int[] a = new int[20];
           int n = sc.nextInt();
 8
           for (int i=0; i<n; i++) {</pre>
 9
                a[i] = sc.nextInt();
10
           }
           for (int i=0; i<(1<<n); i++) {
11
                int sum = 0;
12
13
                for (int j=0; j<n; j++) {</pre>
                    if ((i&(1<<j)) != 0) {</pre>
14
15
                        sum += a[j];
16
                    }
17
18
                c[sum] = true;
19
20
           for (int i=1;; i++) {
                if (c[i] == false) {
21
22
                    System.out.println(i);
23
                    break;
24
                }
25
           }
26
       }
27 }
28
```

 결과
 메모리
 시간
 코드 길이

 맞았습니다!!
 13740 KB
 228 ms
 744 B

```
1 #include <iostream>
   2 using namespace std;
   3 int n, m;
                                                                                                                             (世: (大人)
2世: (大人)
   4 string a[20];
   5 int dx[] = \{0,0,1,-1\};
   6 (int dy[] = \{1, -1, 0, 0\};
    7 int go(int step int x1, int y1, int x2, int y2) {
                   if (step == 11) return -1:
                   bool fall1=false, fall2=false;
10
                   If (x1 < 0 \mid | x1 >= n \mid | y1 < 0 \mid | y1 >= m) fall1 = true;
11
                  if (x2 < 0 \mid | x2 >= n \mid | y2 < 0 \mid | y2 >= m) fall2 = true;
                   if (fall1 && fall2) return -1;
12
13
                   if (fall1 || fall2) return(step)
                   int ans = -1;
14
15
                   for (int k=0; k<4; k++) {
                             int nx1 = x1+dx[k];
16
                             int ny1 = y1+dy[k];
17
18
                             int nx2 = x2+dx[k];
19
                             int ny2 = y2+dy[k];
                             if (0 \le nx1 \& xx1 < n \& xx1 < n & 
20
21
                                        x1x1 = x1;
22
                                        ny1 = y1;
23
                             if (0 <= nx2 && nx2 < n && 0 <= ny2 && ny2 < m && (nx2)[ny2] == )#') {
24
25
26
                                        ny2 = y2;
27
28
29
                              int temp = go(step+1, nx1, ny1, nx2, ny2);
                             if (temp == -1) continue;
30
31
                             if (ans == -1 \mid | ans > temp) {
32
                                        ans = temp;
33
34
                   return ans;
35
36 }
37 int main() {
38
                   cin >> n >> m;
39
                   int x1,y1,x2,y2;
40
                  x1=y1=x2=y2=-1;
41
                   for (int i=0; i<n; i++) {</pre>
42
                             cin >> a[i];
43
                             for (int j=0; j<m; j++) {</pre>
                                        if (a[i][j] == 'o') {
44
                                                   if (x1 == -1) {
45
46
47
                                                   } else {
48
49
50
51
52
                                                   a[i][j] = '.
53
54
                             }
55
                   cout \ll go(0(x1,y)(x2,y))
                                                                                         << '\n';
56
57
                   return 0;
58 }
```

시간

52 ms

코드 길이

1597 B

Java

59

결과

맞았습니다!!

```
1 import java.util.*;
 2 public class Main {
       static int n, m;
 3
       static char[][] a;
       static final int[] dx = \{0,0,1,-1\};
       static final int[] dy = \{1,-1,0,0\};
       static int go(int step, int x1, int y1, int x2, int y2) {
 8
           if (step == 11) return -1;
 9
           boolean fall1 = false;
10
           boolean fall2 = false;
           if (x1 < 0 \mid | x1 >= n \mid | y1 < 0 \mid | y1 >= m) fall1 = true;
11
           if (x2 < 0 \mid | x2 >= n \mid | y2 < 0 \mid | y2 >= m) fall2 = true;
12
13
           if (fall1 && fall2) return -1;
14
           if (fall1 || fall2) return step;
           int ans = -1;
15
16
           for (int k=0; k<4; k++) {
17
               int nx1 = x1+dx[k];
               int ny1 = y1+dy[k];
18
19
               int nx2 = x2+dx[k];
               int ny2 = y2+dy[k];
20
21
               if (0 <= nx1 && nx1 < n && 0 <= ny1 && ny1 < m && a[nx1][ny1] == '#') {
22
                   nx1 = x1;
23
                   ny1 = y1;
24
25
               if (0 <= nx2 && nx2 < n && 0 <= ny2 && ny2 < m && a[nx2][ny2] == '#') {
26
                   nx2 = x2;
27
                   ny2 = y2;
28
               }
29
30
               int temp = go(step+1, nx1, ny1, nx2, ny2);
31
               if (temp == -1) continue;
32
               if (ans == -1 \mid \mid ans > temp) {
33
                   ans = temp;
34
               }
35
           }
36
           return ans;
37
38
       public static void main(String[] args) {
39
           Scanner sc = new Scanner(System.in);
40
           n = sc.nextInt();
41
           m = sc.nextInt();
42
           a = new char[n][m];
43
           int x1,y1,x2,y2;
44
           x1=y1=x2=y2=-1;
45
           for (int i=0; i<n; i++) {</pre>
46
               a[i] = sc.next().toCharArray();
47
               for (int j=0; j<m; j++) {
                   if (a[i][j] == 'o') {
48
                        if (x1 == -1) {
49
50
                            x1 = i;
51
                            y1 = j;
52
                       } else {
53
                            x2 = i;
54
                            y2 = j;
55
56
                       a[i][j] = '.';
57
                   }
58
59
60
           System.out.println(go(0,x1,y1,x2,y2));
61
62 }
63
```

메모리

1988 KB

결과 메모리 시간 코드 길이 맞았습니다!! 13128 KB 276 ms 2016 B 16198번 - 에너지 모으기 baekjoon

C++14

```
1 #include <iostream>
 2 #include <vector>
 3 using namespace std;
 4 int go(vector<int> &a) {
       int n = a.size();
      if (n == 2) return 0;
       int ans = 0;
       for (int(i)1;(i)n-1;(i)++) {
           int energy = a[i-1]*a[i+1];
           vector<int> b(a);
10
11
           b.erase(b.begin()+i);
           energy += go(b)
12
13
           if (ans < energy) {</pre>
14
               ans = energy;
15
16
17
       return ans;
18 }
19 int main() {
20
       int n;
21
       cin >> n;
22
       vector<int> a(n);
       for (int i=0; i<n; i++) {</pre>
23
24
           cin >> a[i];
25
26
       cout << go(a))<< '\n';
27
       return 0;
28 }
29
            결과
                                                                          시간
                                          메모리
                                                                                                       코드 길이
          맞았습니다!!
                                         1988 KB
                                                                         8 ms
                                                                                                        574 B
```

Java

```
1 import java.util.*;
 2 public class Main {
       static int go(ArrayList<Integer> a) {
           int n = a.size();
           if (n == 2) return 0;
           int ans = 0;
           for (int i=1; i<n-1; i++) {
 8
               int energy = a.get(i-1)*a.get(i+1);
 9
               ArrayList<Integer> b = new ArrayList<>(a);
               b.remove(i);
10
11
               energy += go(b);
12
               if (ans < energy) {</pre>
13
                   ans = energy;
14
               }
15
16
           return ans;
17
18
       public static void main(String[] args) {
19
           Scanner sc = new Scanner(System.in);
20
           int n = sc.nextInt();
           ArrayList<Integer> a = new ArrayList<>();
21
           for (int i=0; i<n; i++) {</pre>
22
23
               a.add(sc.nextInt());
24
25
           System.out.println(go(a));
26
27 }
28
29
```

결과 메모리 시간 코드길이 맞았습니다!! 20780 KB 176 ms 783 B



코드플러스

https://code.plus

- 슬라이드에 포함된 소스 코드를 보려면 "정보 수정 > 백준 온라인 저지 연동"을 통해 연동한 다음, "백준 온라인 저지"에 로그인해야 합니다.
- 강의 내용에 대한 질문은 코드 플러스의 "질문 게시판"에서 할 수 있습니다.
- 문제와 소스 코드는 슬라이드에 첨부된 링크를 통해서 볼 수 있으며, "백준 온라인 저지"에서 서비스됩니다.
- 슬라이드와 동영상 강의는 코드 플러스 사이트를 통해서만 볼 수 있으며, 동영상 강의의 녹화와 다운로드, 배포와 유통은 저작권법에 의해서 금지되어 있습니다.
- 다른 경로로 이 슬라이드나 동영상 강의를 본 경우에는 codeplus@startlink.io 로 이메일 보내주세요.
- 강의 내용, 동영상 강의, 슬라이드, 첨부되어 있는 소스 코드의 저작권은 스타트링크와 최백준에게 있습니다.